

WHAT IS CLAIMED IS:

1. A planar heat pipe, comprising a top lid and a bottom lid engageable with the top lid to form an internal cavity, the planar heat pipe further comprising a wick structure and a working fluid in the internal cavity,
5 wherein the top lid includes a top panel, which comprises a central flat region and a plurality of independent heat dissipating fins spirally arranged around the central flat region to form a spiral channel.
2. The planar heat pipe of Claim 1, wherein the top panel of the top lid is circumscribed by four side panels.
- 10 3. The planar heat pipe of Claim 1, wherein the central flat region has a circular shape.
4. The planar heat pipe of Claim 1, wherein each of the heat dissipating fins has a conical shape.
5. The planar heat pipe of Claim 1, wherein the heights of the heat
15 dissipating fins increase from the central flat region towards a periphery of the top panel.
6. The planar heat pipe of Claim 1, wherein the bottom panel is circumscribed by four side panels.
7. The planar heat pipe of Claim 1, wherein the wick structure
20 comprises a first structure uniformly distributed on an internal wall of the internal cavity, and a second structure concentrated under the central flat region of the top lid.
8. A cooling device, comprising:
a planar heat pipe, comprising a top lid and a bottom lid engageable
25 with the top lid to form an internal cavity, the planar heat pipe further comprising a wick structure and a working fluid in the internal cavity,

wherein the top lid includes a top panel, which comprises a central flat region and a plurality of independent heat dissipating fins spirally arranged around the central flat region to form a spiral channel;

a fan seat, fitting over the planar heat pipe; and

5 a cooling fan, mounted on the fan seat.

9. The cooling device of Claim 8, wherein the top panel of the top lid further comprises a plurality of fitting plates, and the fan seat comprises a plurality of supporting legs to be latched with the fitting plates of the top panel of the top lid.

10 10. The cooling device of Claim 8, wherein the bottom lid comprises a plurality of fitting plates for fitting the fan seat.

11. The cooling device of Claim 10, wherein the fan seat comprises a plurality of supporting leg to be fastened with the fitting plates of the bottom lid.

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